

SEQUENCE LISTING

<110> Zanetti, Maurizio

<120> Somatic Transgene Immunization and Related Methods

<130> P-ZA 3519

<140> US 09/300,959

<141> 1999-04-27

<150> US 60/083,154

<151> 1998-04-27

<160> 42

<170> PatentIn Ver. 2.1

<210> 1

<211> 27

<212> DNA

<213> Mus musculus

<400> 1

aaggcctact ctcatgggtat ggactac

27

<210> 2

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: mutant heavy
chain complementarity determining region 3(CDR3)

<400> 2

aagggtaccct actctcatgg tatggactac

30

<210> 3

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: mutant heavy
chain complementarity determining region 3(CDR3)

<400> 3
gtaccaaatg caaacccaaa tgcaaacc caaatgcaaacc cagtaccc 48

<210> 4
<211> 4
<212> PRT
<213> Plasmodium falciparum

<400> 4
Asn Ala Asn Pro
1

<210> 5
<211> 422
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: genomic VDJ
region

<400> 5
gacgtgaagc tgggtggagtc tggggggaggc ttagtgaagc ttggagggtc cctgaaactc 60
tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
ccagagaaga ggctggagtt ggtcgcagcc attaatagta atgggtggtag cacctactat 180
ccagacactg tgaagggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
ctgcaaatga gcagtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggta 300
ccctactctc atggatatgga ctactgggggt caaggaacct cagtcaccgt ctcctcaggt 360
aagaatggcc tctccaggtc tttatatttta acctttgtta tggagttttc tgagcattgc 420
ag 422

<210> 6
<211> 422
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: genomic VDJ
region

<400> 6
gacgtgaagc tgggtggagtc tggggggaggc ttagtgaagc ttggagggtc cctgaaactc 60
tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
ccagagaaga ggctggagtt ggtcgcagcc attaatagta atgggtggtag cacctactat 180

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ccagacactg tgaagggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
ctgcaaatga gcagtctgaa gtctgaggac acagctttgt attactgtgc aagaaaggta 300
ccctactctc atggtatgga ctactggggt caaggaacct cagtcaccgt ctccctcaggt 360
aagaatggcc tctccaggtc tttattttta acctttgtta tggagttttc tgagcattgc 420
ag 422

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<210> 7
<211> 419
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: genomic VDJ
      region

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<400> 7
gacgtgaagc tgggtggagtc tggggggaggc ttagtgaagc ttggaggggc cctgaaactc 60
tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
ccagagaaga ggctggagtt ggtcgcagcc attaatagta atggtggtag cacctactat 180
ccagacactg tgaagggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
ctgcaaatga gcagtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggcc 300
tactctcatg gtatggacta ctgggggtcaa ggaacctcag tcaccgtctc ctcaggtaag 360
aatggcctct ccaggtcttt atttttaacc tttgttatgg agttttctga gcattgcag 419

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<210> 8
<211> 419
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: genomic VDJ
      region

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<400> 8
gacgtgaagc tgggtggagtc tggggggaggc ttagtgaagc ttggaggggc cctgaaactc 60
tcctgtgcag cctctggatt cactttcagt aggtattaca tgtcttgggt tcgccagact 120
ccagagaaga ggctggagtt ggtcgtagcc attaatagta atggtggtag cacctactat 180
ccagacactg tgaagggccg attcaccatc tccagagaca atgccaaaaa caccctgtac 240
ctgcaaatga gcagtctgaa gtctgaggac acagccttgt attactgtgc aagaaaggcc 300
tactctcatg gtatggacta ctgggggtcaa ggaacctcag tcaccgtctc ctcaggtaag 360
aatggcctct ccaggtcttt atttttaacc tttgttatgg agttttctga gcattgcag 419

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<210> 9
<211> 12
<212> PRT

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<213> Plasmodium falciparum

<400> 9

Asn Ala Asn Pro Asn Val Asp Pro Asn Ala Asn Pro
1 5 10

<210> 10

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
complementarity determining region 2 (CDR2)

<400> 10

aatgcaaacc caaatgtaga tccaatgcc aaccca 36

<210> 11

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
complementarity determining region 3 (CDR3)

<400> 11

aatgcaaacc caaatgcaaa cccaaatgca aaccca 36

<210> 12

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
complementarity determining region 3 (CDR3)

<400> 12

aaggtacccg cttccaatga aaatatggag actatggaat caagtacact tgtaccctac 60
tc 62

<210> 13

<211> 14
<212> PRT
<213> Influenza virus

<400> 13
Ala Ser Asn Glu Asn Met Glu Thr Met Glu Ser Ser Thr Leu
1 5 10

<210> 14
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
oligonucleotide

<400> 14
gtacccgctt ccaatgaaaa tatggagact atggaatcaa gtacactt 48

<210> 15
<211> 11
<212> PRT
<213> MUC-1 tumor antigen

<400> 15
Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
1 5 10

<210> 16
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 16
Val Thr Ser Ala Pro Asp Thr Arg Pro Ala Pro
1 5 10

<210> 17
<211> 12

<212> PRT
<213> MUC-1 tumor antigen

<400> 17
Pro Asp Thr Arg Pro Ala Pro Gly Ser Thr Ala Pro
1 5 10

<210> 18
<211> 24
<212> DNA
<213> Mus musculus

<400> 18
ttcgatgtcc ataccatgag agta 24

<210> 19
<211> 24
<212> DNA
<213> Mus musculus

<400> 19
ttcagcacct actatccaga cact 24

<210> 20
<211> 24
<212> DNA
<213> Homo sapiens

<400> 20
ttcctcttct gcgtgtagtg gttg 24

<210> 21
<211> 24
<212> DNA
<213> Homo sapiens

<400> 21
ttcataatgc caagacaaag ccgc 24

<210> 22
<211> 23
<212> DNA
<213> Mus musculus

<400> 22
ttattgagaa tagaggacat ctg 23

<210> 23
<211> 21
<212> DNA
<213> Mus musculus

<400> 23
atgctcagaa aactccataa c 21

<210> 24
<211> 23
<212> DNA
<213> Mus musculus

<400> 24
aacagtattc tttcttttgca tgg 23

<210> 25
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
oligonucleotide

<400> 25
atgctcataa aactccataa c 21

<210> 26
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
oligonucleotide

<400> 26
aacagtattc tttcttttgca gc 22

<210> 27
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 oligonucleotide

 <400> 27
 gagagtaggg tactgggttt 20

 <210> 28
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 oligonucleotide

 <400> 28
 agcacctact atccagacac t 21

 <210> 29
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 oligonucleotide

 <400> 29
 gtagtccata ccatgagagt a 21

 <210> 30
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:
 oligonucleotide

<400> 30
tgggccgccc tagtcacc 18

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
oligonucleotide

<400> 31
cgtttggcct tagggttcag 20

<210> 32
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
peptide

<400> 32
Asp Glu Asn Gly Asn Tyr Pro Leu Gln Cys
1 5 10

<210> 33
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
oligonucleotide

<400> 33
caagaaaggt accctactct c 21

<210> 34
<211> 21
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
oligonucleotide

<400> 34

agtaatggcc atggtagcac c

21

<210> 35

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
oligonucleotide

<400> 35

gtacccaatg caaacccaaa tgcaaacc caaacc ca

42

<210> 36

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
oligonucleotide

<400> 36

gtactggggtt tgcatttggg tttgcatttg gg

42

<210> 37

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
oligonucleotide

<400> 37

catggtaatg caaacccaaa tgtagatccc aatgccaacc ca

42

<210> 38
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
oligonucleotide

<400> 38
catgtggggtt ggcattggga tctacatttg ggtttgcatt ac 42

<210> 39
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
peptide

<400> 39
Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro
1 5 10

<210> 40
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: synthetic
peptide

<400> 40
Asn Val Asp Pro
1

<210> 41
<211> 9
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<400> 41

Ala Ser Asn Glu Asn Met Glu Thr Met
1 5

<210> 42

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
oligonucleotide

<400> 42

gtacaagtgt acttgattcc atagtctcca tattttcatt ggaagcgg

48